

**MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY  
OPERATING PERMIT TECHNICAL REVIEW DOCUMENT**

**Permitting and Compliance Division  
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**Park County Refuse Disposal District  
414 East Callender  
P.O. Box 1212  
Livingston, MT 59047**

The following table summarizes the air quality programs testing, monitoring, and reporting requirements applicable to this facility.

<b>Facility Compliance Requirements</b>	<b>Yes</b>	<b>No</b>	<b>Comments</b>
Source Tests Required	X		Method 5 and Method 9
Ambient Monitoring Required		X	
COMS Required		X	
CEMS Required		X	
Schedule of Compliance Required		X	
Annual Compliance Certification and Semiannual Reporting Required	X		All Applicable Emitting Units
Monthly Reporting Required		X	
Quarterly Reporting Required		X	
<b>Applicable Air Quality Programs</b>			
ARM Subchapter 7 Preconstruction Permitting	X		Permit #1629-01
New Source Performance Standards (NSPS)	X		40 CFR Part 60, Subpart E
National Emission Standards for Hazardous Air Pollutants (NESHAPS)		X	
Maximum Achievable Control Technology (MACT)		X	
Major New Source Review (NSR)		X	
Prevention of Significant Deterioration (PSD)		X	
Risk Management Plan Required (RMP)		X	
Acid Rain Title IV		X	
State Implementation Plan (SIP)	X		General SIP

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## SECTION I. GENERAL INFORMATION

### A. Purpose

This document establishes the basis for the decisions made regarding the applicable requirements, monitoring plan, and compliance status of emission units affected by the operating permit proposed for this facility. The document is intended for reference during review of the proposed permit by the EPA and the public. It is also intended to provide background information not included in the operating permit and to document issues that may become important during modifications or renewals of the permit. Conclusions in this document are based on information provided in the original application submitted by Park County on March 1, 1995, and an additional submittal on June 2, 1995. A request for an administrative amendment to change the responsible official was submitted on July 15, 2003.

### B. Facility Location

An incineration and steam production facility located in Livingston, Montana. The legal description for the site is the Southwest  $\frac{1}{4}$  of Section 7, Township 2 South, Range 10 East in Park County, Montana.

### C. Facility Background Information

The Park County Refuse Disposal District (Park County) currently operates a municipal incineration and steam production facility under preconstruction Permit #1629-01. The location of the facility is adjacent to M Street Park in Livingston, Montana, on Burlington Northern (BN) Railroad property.

The facility burns municipal waste in two Consumat CS-1600 incinerator(s), each having a capacity of 3000 lb/hour or 36 tons/day, for a total capacity of 72 tons/day at the facility. These are natural gas-fired, multiple-chamber incinerators that have a heat exchanger module for steam production. The incinerators have a controlled air design for better combustion and are ducted through a common stack.

The facility will burn municipal waste from the Livingston area, Yellowstone National Park, and possibly some wood waste from local sawmills. These latter wastes are referred to as industrial wastes and the Department required notification from Park County when plans were finalized on whether these or other industrial wastes will be burned at the facility.

Ash and other material not burned by the incinerator are removed and disposed of in a proper manner. This material will be wet and should not generate a dust problem while it is being handled.

During the issuance of the original permit, the Department checked with other states that have dealt with similar Consumat facilities. It was determined that the incinerators can meet the applicable emission limitations without scrubbing the exhaust stream; however, there may be periods of excess emissions, primarily from improper operation of the incinerators. Therefore, a stack temperature recorder with permanent record was required for this facility to help maintain proper operating conditions. This is necessary because the primary means of controlling emissions is through controlling the combustion air rather than scrubbing the exhaust gases. In the original preliminary determination on this application, a continuous opacity monitor was required for this purpose. Comments received from Wilder Construction Company, the contractor installing the facility, indicated there might be problems with the operation of an opacity monitor on this type of facility. Wilder Construction also had a contract to operate the facility for at least 1 year. Their past operation of this type of facility should alleviate many of the operational problems. Based on these comments, the Department decided not to require an opacity monitor as a permit condition. The stack temperature recorder will serve the same function as an opacity monitor, but will not be as precise. In the future, if the Department determines a more accurate assessment of continuous operating conditions is necessary, an opacity monitor can be required at that time. Permit 1629 was issued on October 5, 1981.

On May 19, 1999, Park County was issued a modification to Permit #1629-00 to add conditions from the Consent Decree Judgement and Order issued to Park County in March 1996. In addition, the rule references in the permit were updated and the permit was formatted to be consistent with current permits issued by the Department. Permit **#1629-01** replaced Permit #1629.

Title V Permit Application #OP1629-00 was submitted to the Department on March 1, 1995, and Permit **#OP1629-00** was issued effective on March 12, 2001.

#### **D. Current Permit Action**

On July 15, 2003, the Department received a request from Park County to administratively amend Permit #OP1629-00 for a change of the responsible official. Permit **#1629-01** replaces Permit #1629-00.

#### **E. Taking and Damaging Analysis**

HB 311, the Montana Private Property Assessment Act, requires analysis of every proposed state agency administrative rule, policy, permit condition or permit denial, pertaining to an environmental matter, to determine whether the state action constitutes a taking or damaging of private real property that requires compensation under the Montana or U.S. Constitution. As part of issuing an operating permit, the Department is required to complete a Taking and Damaging Checklist. As required by 2-10-101 through 105, MCA, the Department has conducted a private property taking and damaging assessment and has determined there are no taking or damaging implications.

#### **F. Compliance Designation**

Park County was last inspected on May 8, 2002, and found to be in compliance with all applicable requirements. Copies of the inspection report are on file with the Department.

## SECTION II. SUMMARY OF EMISSION UNITS

### A. Facility Process Description

The facility burns municipal waste in two Conumat CS-1600 incinerators, each having a capacity of 3000 lb/hour or 36 tons/day, for a total capacity of 72 tons/day at the facility. These are natural gas-fired, multiple-chamber incinerators that use a heat exchanger module for steam production. Burlington Northern (BN) uses the steam. The incinerators have a controlled air design for better combustion and are ducted through a common stack. For the purpose of this Title V permit, the two 36-ton/hr capacity Conumat CS-1600 incinerators are considered a single 72-ton/hr capacity emitting unit because they vent to a single main stack.

The facility will burn municipal waste from the Livingston area, Yellowstone National Park, and possibly some wood waste from local sawmills. These latter wastes are referred to as industrial wastes and the Department required notification from Park County when plans were finalized on whether these or other industrial wastes will be burned at the facility.

Ash and other material not burned by the incinerator are removed and disposed of in a proper manner. This material will be wet and should not generate a dust problem while it is being handled.

### B. Emission Units and Pollution Control Device Identification

The emission units regulated by this permit are the following (ARM 17.8.1211):

Emission Unit ID	Description	Pollution Control Device/Practice
EU001	Conumat CS-1600 Incinerator(s)	After-Burner
EU002	Fugitive Dust form Vehicle Traffic	Reasonable Precautions

### C. Categorically Insignificant Sources/Activities

Park County did not list any insignificant sources as part of the Title V Operating Permit application submitted on March 1, 1995, or the application submitted on June 2, 1995. However, as part of the Title V permit application, Park County listed ash removal as a significant source of emissions. After further review, the Department has determined that ash removal (water saturated ash) at the facility will be considered an insignificant source of emissions at the facility. Because Park County did not list any additional insignificant sources in the application, the Department will not identify any additional insignificant sources of emissions.

### **SECTION III. PERMIT CONDITIONS**

#### **A. Emission Limits and Standards**

The Department has determined that the emission limits that apply to the Consumat CS-1600 Incinerator(s) (EU001) are as follows: opacity = 10% and particulate matter = 0.08 gr/dscf corrected to 12% CO<sub>2</sub>. The previously cited emission limits were established in Park County's preconstruction permit #1629-01. The particulate matter emission limit is established through 40 CFR Part 60, Subpart E, Standards of Performance for New Stationary Sources. Applicable operational limits contained in operating permit #OP1629-00 were established in Park County's preconstruction permit #1629-00.

The Department has determined that fugitive dust from vehicle traffic shall be limited to 20% opacity. Applicable operational limits contained in operating Permit #1629-00 were established in Park County's preconstruction Permit #1629-00.

#### **B. Monitoring Requirements**

ARM 17.8.1212(1) requires that all monitoring and analysis procedures or test methods required under applicable requirements be contained in operating permits. In addition, when the applicable requirement does not require periodic testing or monitoring, periodic monitoring must be prescribed that is sufficient to yield reliable data from the relevant time period that is representative of the source's compliance with the permit.

The requirements for testing, monitoring, recordkeeping, reporting and compliance certification, sufficient to assure compliance, do not require the permit to impose the same level of rigor for all emission units. Furthermore, it does not require extensive testing or monitoring to assure compliance with the applicable requirements for emission units that do not have significant potential to violate emission limitations or other requirements under normal operating conditions. When compliance with the underlying applicable requirement for an insignificant emission unit is not threatened by lack of regular monitoring and when periodic testing or monitoring is not otherwise required by the applicable requirement, the status quo (i.e., no monitoring) will meet the requirements of ARM 17.8.1212(1). Therefore, the permit does not include monitoring for insignificant emission units.

The permit includes periodic monitoring or recordkeeping for each applicable requirement. The information obtained from the monitoring and recordkeeping will be used by the permittee to periodically certify compliance with the emission limits and standards. However, the Department may request additional testing to determine compliance with the emission limits and standards.

#### **C. Test Methods and Procedures**

The operating permit may not require testing for all sources if routine monitoring is used to determine compliance, but the Department has the authority to require testing if deemed necessary to determine compliance with an emission limit or standard. In addition, the permittee may elect to voluntarily conduct compliance testing to confirm its compliance status.

#### **D. Recordkeeping Requirements**

The permittee is required to keep all records listed in the operating permit as a permanent business record for at least 5 years following the date of the generation of the record.

## **E. Reporting Requirements**

Reporting requirements are included in the permit for each emission unit and Section V of the operating permit, "General Conditions," explains the reporting requirements. However, the permittee is required to submit semi-annual and annual monitoring reports to the Department and to annually certify compliance with the applicable requirements contained in the permit. The reports must include a list of all emission limit and monitoring deviations, the reason for any deviation, and the corrective action taken as a result of any deviation.

#### **SECTION IV. NON-APPLICABLE REQUIREMENT ANALYSIS**

Pursuant to ARM 17.8.1221, Park County requested that a permit shield be provided by the Department for 40 CFR Part 60, Subpart E. The Department will not shield Park County from 40 CFR Part 60, Subpart E, because Park County, as part of their operation, incorporates an emitting unit subject to the requirements of this Subpart.



## **SECTION V. FUTURE PERMIT CONSIDERATIONS**

### **A. MACT Standards**

As of September 1, 2003, the Department is unaware of any currently applicable or future MACT Standards that may be promulgated that will affect this facility.

### **B. NESHAP Standards**

As of September 1, 2003, the Department is unaware of any currently applicable or future NESHAP Standards that may be promulgated that will affect this facility.

Asbestos abatement projects and building demolition/renovation activities will be conducted in accordance with applicable asbestos regulatory requirements. Those regulatory requirements include, but are not limited to 29 CFR 1926.1101; 40 CFR 763 sections 120, 121, 124, and Subpart E; 40 CFR Part 61 Subpart M; State of Montana Asbestos Control Act 75-2-501 through 519 MCA; and State of Montana Occupational Health Rules ARM 17.74.301 through 406. State-accredited asbestos abatement personnel shall conduct the abatement of regulated asbestos-containing materials. Asbestos-containing waste materials shall be transported properly and disposed of in a state-approved landfill.

### **C. NSPS Standards**

The Consumat CS-1600 incinerator(s) is subject to the applicable requirements of 40 CFR Part 60, Subpart E. 40 CFR Part 60, Subpart BBBB, requires the Department to submit a plan to EPA that implements emission guidelines for existing small municipal waste combustion units. These guidelines will be applicable to this facility.

As of September 1, 2003, the Department is unaware of any other currently applicable or future NSPS Standards that may be promulgated that will affect this facility.

### **D. Risk Management Plan**

As of September 1, 2003, this facility does not exceed the minimum threshold quantities for any regulated substance listed in 40 CFR 68.115 for any facility process. Consequently, this facility is not required to submit a Risk Management Plan.

If a facility has more than a threshold quantity of a regulated substance in a process, the facility must comply with 40 CFR 68 requirements 3 years after the date on which a regulated substance is first listed under 40 CFR 68.130, or on the date which a regulated substance is first present in more than a threshold quantity in a process, whichever is later.